

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: LUMIERE

Report Number: P221337

Luminaire Tested: **9002-W2-FL-LED3590-S-BK-L1-UNV**

Issue Date: 3/3/2020

Test Information

Test Method: LM-79-08
Report Number: P221337
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P29421)
Test Lab: INNOVATION CENTER-P2
Issue Date: 3/3/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: LUMIERE
Catalog Number: 9002-W2-FL-LED3590-S-BK-L1-UNV
Description: LUMIERE LANTERRA 9002 LED WALL LUMINAIRE, FLUSH LENS, SPOT OPTIC,
BLACK HOUSING.
Light Source: (1) 3500K CCT, 90 CRI LED
Ballast/Driver: ELECTRONIC DRIVER

Summary

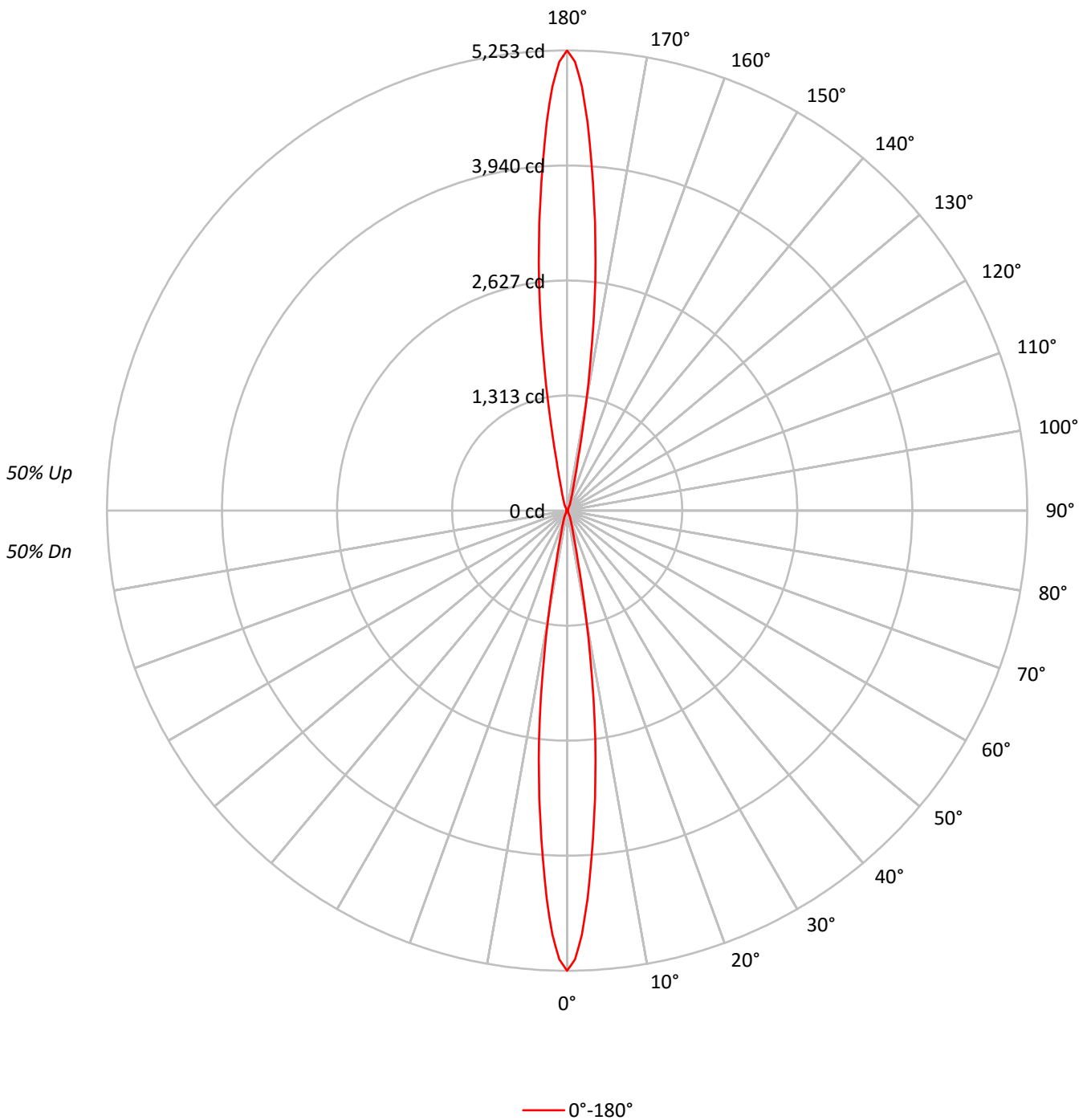
Lumens per Lamp: N/A
Luminaire Lumens: 796.4 lumens
Efficiency: N/A
Efficacy: 39.8 lumens/watt
Spacing Criteria (0/90/45): 0.24 / 0.24 / 0.24
Luminous Opening: Circular (Dia: 0.17' x H: 0')
CIE Type: General Diffuse

Input Watts (W): 20
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20				20				20				20			
RC	80				70				50				30				10	0		
RW	70	50	30	10	70	50	30	10	50	30	10		50	30	10		50	30	10	0
RCR																				
0	107	107	107	107	99	99	99	99	83	83	83		69	69	69		56	56	56	50
1	101	98	96	93	94	91	89	87	78	77	75		66	65	64		55	55	54	49
2	96	91	87	83	89	85	82	79	74	71	70		63	62	61		54	53	52	48
3	91	85	80	76	85	80	76	72	70	67	65		61	59	58		53	52	51	47
4	87	80	74	70	81	75	71	67	67	64	61		59	57	55		52	51	50	47
5	83	75	70	66	78	71	67	63	64	61	58		57	55	53		51	49	49	46
6	79	71	66	62	75	68	63	60	61	58	56		55	53	52		50	49	48	45
7	76	68	63	59	72	65	61	57	59	56	54		54	52	50		49	48	47	45
8	73	65	60	57	69	63	58	55	57	54	52		53	50	49		48	47	46	44
9	71	63	58	55	67	60	56	53	56	53	50		52	49	48		47	46	45	44
10	69	61	56	53	65	58	54	51	54	51	49		50	48	47		47	45	44	43

AVERAGE LUMINANCE (cd/sqm):

	0°
0°	2591575
5°	1748382
10°	622331
15°	129535
20°	62480
25°	30268
30°	10369
35°	5240
40°	3929
45°	2442
50°	1996
55°	1462
60°	1677
65°	1051
70°	1298
75°	0
80°	0
85°	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	264.2	33.2
10°-20°	94.7	11.9
20°-30°	26.6	3.3
30°-40°	6.1	0.8
40°-50°	3.2	0.4
50°-60°	1.8	0.2
60°-70°	1.2	0.1
70°-80°	0.4	0.0
80°-90°	0.0	0.0
90°-100°	0.0	0.0
100°-110°	0.6	0.1
110°-120°	1.2	0.1
120°-130°	1.8	0.2
130°-140°	3.2	0.4
140°-150°	6.1	0.8
150°-160°	26.6	3.3
160°-170°	94.7	11.9
170°-180°	264.2	33.2
0°-30°	385.5	48.4
0°-40°	391.7	49.2
0°-60°	396.6	49.8
0°-90°	398.2	50.0
90°-120°	1.8	0.2
90°-150°	12.9	1.6
90°-180°	398.0	50.0
0°-180°	796.4	100.0

CANDELA DISTRIBUTION:

	0°	Flux
0°	5253	
5°	3530	264
15°	254	95
25°	56	27
35°	9	6
45°	4	3
55°	2	2
65°	1	1
75°	0	0
85°	0	0
90°	0	0
95°	0	0
105°	0	1
115°	1	1
125°	2	2
135°	4	3
145°	9	6
155°	56	27
165°	254	95
175°	3530	264
180°	5253	



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CANDELA DISTRIBUTION (FULL):

0°	
0°	5252.7
1°	5123.3
2°	4843.6
3°	4437.1
4°	3981.9
5°	3530.2
6°	3084.6
7°	2632.9
8°	2161.2
9°	1685.2
10°	1242.2
11°	866.9
12°	588.9
13°	417.8
14°	317.9
15°	253.6
17.5°	164.2
20°	119.0
22.5°	86.0
25°	55.6
27.5°	32.1
30°	18.2
32.5°	12.2
35°	8.7
37.5°	6.9
40°	6.1
42.5°	5.2
45°	3.5
47.5°	3.5
50°	2.6
52.5°	2.6
55°	1.7
57.5°	1.7
60°	1.7
62.5°	1.7
65°	0.9
67.5°	0.9
70°	0.9
72.5°	0.9
75°	0.0
77.5°	0.0
80°	0.0
82.5°	0.0
85°	0.0
87.5°	0.0



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CANDELA DISTRIBUTION (continued):

	0°
90°	0.0
92.5°	0.0
95°	0.0
97.5°	0.0
100°	0.0
102.5°	0.0
105°	0.0
107.5°	0.9
110°	0.9
112.5°	0.9
115°	0.9
117.5°	1.7
120°	1.7
122.5°	1.7
125°	1.7
127.5°	2.6
130°	2.6
132.5°	3.5
135°	3.5
137.5°	5.2
140°	6.1
142.5°	6.9
145°	8.7
147.5°	12.2
150°	18.2
152.5°	32.1
155°	55.6
157.5°	86.0
160°	119.0
162.5°	164.2
165°	253.6
166°	317.9
167°	417.8
168°	588.9
169°	866.9
170°	1242.2
171°	1685.2
172°	2161.2
173°	2632.9
174°	3084.6
175°	3530.2
176°	3981.9
177°	4437.1
178°	4843.6
179°	5123.3



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CANDELA DISTRIBUTION (continued):

180° | $\frac{0^\circ}{5252.7}$

(END OF REPORT)